

RF AMPLIFIER

Available as: TM9708, 4 Pin TO-8 (T4)
 TN9708, 4 Pin Surface Mount (SM3)
 BX9708, Connectorized Housing (H1)

MODEL *TM9708*

Features

- Low Noise Figure: 3.0 dB Typical
- Operating Temp. - 55 °C to +85 °C
- Environmental Screening Available

Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +66 dBm (Typ.)
 Second Order Two Tone Intercept Point +60 dBm (Typ.)
 Third Order Two Tone Intercept Point +40 dBm (Typ.)

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	10 - 2100 MHz	10 - 2000 MHz
Gain (dB)	11.5	10.5 Min.
Power @ 1 dB Comp. (dBm)	+24.5	+23.0 Min.
Reverse Isolation (dB)	-18	-17 Min.
VSWR In	<1.2:1*	1.8:1*
Out	<1.5:1*	1.9:1*
Noise Figure(dB) _{10-200 MHz}	3.6 dB	4.7 Max.
_{200-2000 MHz}	3.0 dB	4.0 Max.
Power Vdc	+15	+15
mA	155	185 Max.

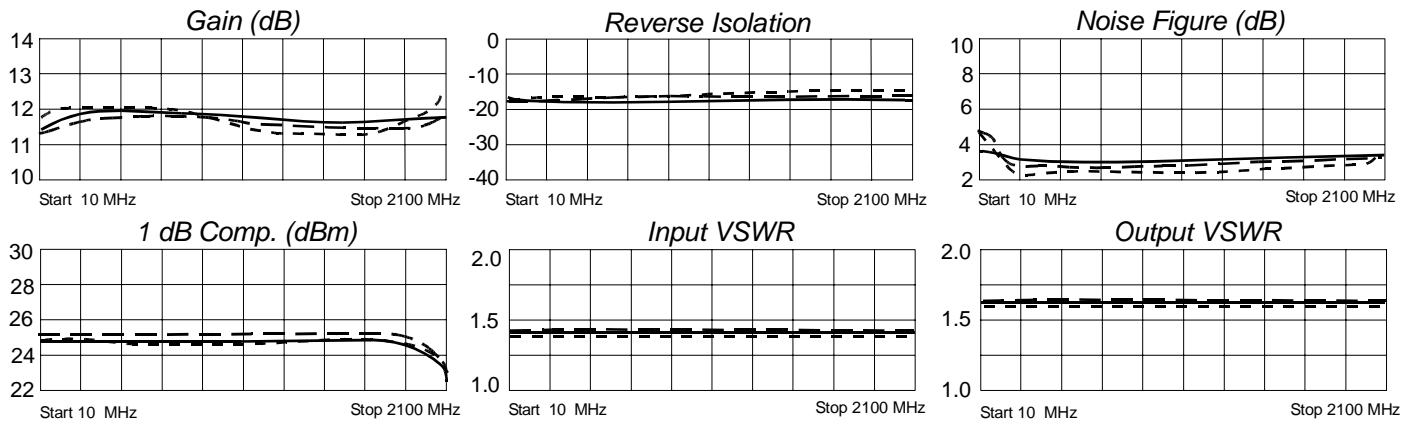
Note: Care should always be taken to effectively ground the case of each unit.

*.2 Higher Below 100 MHz

Maximum Ratings

Ambient Operating Temperature -55°C to + 100 °C
 Storage Temperature -62°C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage +17 Volts
 Continuous RF Input Power + 17 dBm
 Short Term RF Input Power..... 50 Milliwatts (1 Minute Max.)
 Maximum Peak Power..... 0.5 Watt (3 µsec Max.)

Typical Performance Data



Legend ——— + 25 °C - - - - + 85 °C ······ -55 °C



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